

# **Carlos Severiano Aragon**

## **Electrical Engineer**

Redlands, California  
(Inland Empire – Southern California)

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### **Employee Value Proposition**

Work efficiently to increase productivity in a company's operational goal while using my 15 years of professional experience as an Electrical Engineer and Operations Coordinator.

### **Employment History**

#### **Account Manager**

**AQ Skin Solutions Jan 2012 to Aug 2016**  
**Irvine, CA**

Found and maintained customers for AQ Skin Solutions cosmetic product lines. I also provided manufacturing improvement and marketing support to help build the business grow and setup their main US distribution team. This lead to roughly \$2 million in annual sales and continued to grow after leaving the company due to breach of contract by AQ Skin Solutions. (Currently in litigation since Aug 2016).

#### **Engineering Consultant**

**Aragon Engineering May 2012 to Present**  
**Yucaipa, CA**

Private Engineering and Operational Excellence Contractor for various sized companies. These companies ranged from small startups to midsize private companies to large Fortune 50 billion dollar companies from a wide variety of industries (Medical Devices, Sensors, Food Processing, Aerospace, etc.) Web design and programming, Custom embedded systems programming and design, Failure Mode Analysis, Process Analysis and Optimization, and Custom Production and Test Equipment design.

#### **Senior Electrical Engineer**

**CareFusion March 2008 to May 2012**  
**Palm Springs, CA**

As a Senior Electrical Engineer I was responsible to achieve multiple goals within several time constrained guidelines throughout the quarter, bi annually, and annually. Various tasks included failure analysis, sustainability testing and component engineering for the VELA, VMAX, SiPAP,

Cub750, Blender and Airline Driver medical device product lines as well as managing the PCBA Repair lab team. I managed Green and Black Belt level Projects varying in scope from component replacements, to complete system redesigns and testing process optimization. My projects gave the company a competitive advantage during the swine flu crises and allowed our Sipap devices to remain competitive against newer products from companies as well as streamlining and saving money through process improvements on all products under my responsibility.

**Field Engineer/Test Engineer/Test Technician**  
**GE Energy March 2004 – March 2008**  
**Minden, NV**

**Field Engineer (2006-2008):** Designed and managed the installation of Bentley Nevada test monitoring systems for industrial machinery, power plants, refineries and factories. Projects ranged from small upgrades to complete factory/plant systems and required equipment analyzation and test equipment determination. Due to the wide variety of uses, this also required determining the best sensors for the equipment and any fluids/chemicals, wear and tear, etc. that the sensors might come into contact with and working with an extensive variety of Programmable Logic Controllers to ensure proper data feedback/recording and relay/warning actuation, lastly working with different teams to get wiring and equipment installed, tested and functioning correctly/ at the company sites.

**Test Technician (2004-2006):** Tested Bentley Nevada 3500, 3300 and legacy monitoring systems and sensors. Ran multiple Green Belt Level projects to decrease legacy device testing time, improve test coverage, reduce test fixture change over time, and increase test fixture reliability.

**Education**

**2015-Present *UCLA***

- Studying Software Programming
  - HTML, CSS, JavaScript, jQuery, NodeJS, ReactJS, Angular JS, GIT, MYSQL, PHP

**2015-Present *Code Academy***

- Studying Software Programming
  - HTML, CSS, JavaScript, jQuery, ReactJS, Angular JS, Ruby, Ruby on Rails, GIT, SQL, PHP and Watson API

### **2002-2004 *ITT Technical Institute***

- Associate's Degree In Electrical Engineering
- 3.96GPA

### **1996-2001 *University of California Riverside***

- Received B.A. (East Asian Studies, concentration on China and Japan)
  - Graduated with a 3.85GPA
- Studied Japanese, Chinese and Korean languages, culture and business ethics

### **1999-2000 *University of Tokyo (Tokyo, Japan)***

- Studied Japanese language, culture, history and business in the Aikom program
- Built relationships with business people from various companies

### **References**

Carlos Castillo  
Sr. Manager R&D  
BeckamCoultre Los Angeles, CA  
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Keywords:

Design, Development & Release of Digital Circuits, Analog Circuits, DAC systems, ADC systems, Embedded Systems, various different PLC (Programmable Logic Control) systems, power control, sensory instrumentation (pressure, heat, speed, distance, speed, velocity, acceleration, etc.), Fieldbus Networking and circuit protection, Capacitors, Resistors, Digital chips, Microprocessors, SoC, Flash/Rom/RAM Memory, EEPROM, EPROM, MOSFETs, Amplifiers, Inverters, Differentiators, power management, battery charging, switching (power and signal), Analogue to Digital Conversion, Amplifiers, Low/High/Band Pass circuitry, pulse width modulation (PWM), digital data selection/transfer, various transducers, touch screen (selection, circuitry and programming), LCD assemblies and IO circuitry, Experienced in Test Engineering for Electrical, pneumatic, mechanical and electro-mechanical systems and integration, Software Programming Experience, C, C++, Visual Basic, various microprocessor code languages, Perl, PHP, Java, HTML, Ruby on Rails, WPF, WCF, LINQ, SQL Server, Reporting Services, ASP.NET, etc., Design software - Orcad, SolidWorks, ProE, Eagle, Altium, LabView, Communication Protocols Experience; RS323, Ethernet, Modbus, VXOP, IHE, HL7, etc., Industrial electrical hands-on experience and troubleshooting, including 480V 3-phase, 110 VAC, and 24VDC systems, OrCAD, MicroCap, Altium, ANSYS, HFSS, FEKO, CST, Satellite Tool Kit Communications Tool Kit software, MATLAB, Verilog (VHDL), LabView, assembly, Design Spark PCB, Altium Designer, Eagle, HTML, CSS, JavaScript, jQuery, ReactJS, Angular JS, Ruby, Ruby on Rails, GIT, SQL, PHP, C++ and Watson API, EasyPower, Power World, Power Systems and Generation, signal transmission, distribution and utilization of electric power, generators, motors, transformers, power supply design, Radio Frequency circuits, Transmitters, transmission lines, RF connectors, antennas, antenna theory, receivers, tuners, amplifiers, modulators, demodulators, detectors, RF filters, RF shielding, ground plane design, PCB layout/, design, analog radio, digital radio, modulation/waveform design, RF link analysis, Fourier analysis, Electromagnetic Environment Effects (E3), EMP, EMI/EMC, Lightning, TEMPEST, grounding, hazards of electromagnetic radiation, radiation testing, thermal stress, shock/vibration, salt/fog, other environmental issues, Embedded Systems, Microprocessor design, microcontroller design, ASIC, structured ASIC, FPGA design, peripheral interface standard design, system level modeling, system architectures, electrical/mechanical interfaces, Communications, Higher Authority Communications (HAC), RF communication, landline communication, communication

networks, embedded microcontrollers including Free Scale 68HC12, Atmel AVR using Atmel AVR Studio, Code Warrior Development Studio, PCB prototyping, Hardware testing, diagnosis and repair, LTspice, MATLAB/Simulink, CADENCE SP 16.2, ADS, programmable FPGA devices from Xilinx (Spartan 3E) using hardware description languages VHDL and Verilog, Controlnet, Devicenet, Ethernet, Profibus, Universal Remote (I/O) Network, Sercos Interface, Modbus, Ability to use Relay Ladder Logic and Functional Block Diagram Editor, Possess a functional understanding of configuring closed loop control utilizing PID in FBD Editor, Pico Controllers, MicroLogix 1500, CompactLogix, ControlLogix and SLC 500 systems. 1794 Flex I/O system, WAGO-I/O System, Siemens Simatic Step 7, Controller Area Network (CAN), B&R X67 I/O system, Bently Nevada System 1, Vibration, Temperature, Velocity, Acceleration, Pressure (Gaseous and Liquid), Proximity Bently Nevada Monitoring Systems. Probes and Transducers, Sensors, Programmable logic Controller units, transducers and relays, Setting up and testing electrical components, PCBAs, Completed products and in-field products/hardware/software, Read and design electrical schematics, Read, understand, interpret and reverse engineer software and electrical hardware, Strong understanding of electrical, mechanical, electro-mechanical, pneumatic, hydraulic and robotic systems design, testing, implementation and operation, Green Belt Certified, expert in Kaizen, Lean Six Sigma, Value Stream Analysis, Design for Six Sigma, DMAIC process, Total Quality Management, Statistical Process Control, Total Predictive Maintenance